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tinue in directions which his wisdom foresaw. Among the most valuable of his activities was his repeated defense of animal experimentation against unreasonable legislative restrictions, an activity in which he secured victories likely to preserve freedom of medical research for many years to come.

The honors received by Dr. Bowditch were many. He was a member of numerous learned societies in this country and abroad. He was a doctor of science at the University of Cambridge, and a doctor of laws at Edinburgh, Toronto, Pennsylvania and Harvard. In 1900 he was president of the Triennial Congress of American Physicians and Surgeons.

With sure and sober judgment Dr. Bowditch combined vigor and readiness of action which made him a natural leader. He was a never-failing source of stimulation and encouragement to all progressive movements aimed at professional and civic improvement, and his mind was fertile with ingenious and effective ways to secure the accomplishment of worthy ends. These qualities of leadership were combined with other qualities—keen interest, un-failing courtesy, fairness and good will—that won for him not only the friendship and life-long devotion of the foremost men of medical science in this country and abroad, but also the affection of his students and close associates. From the days of his youth, when he began the struggle for ideals, to his last years of failing strength, he met what life brought him with courage and cheerful humor; and he passed away as much loved for the beauty and strength of his character, as he was admired for his achievements.

S. WEIR MITCHELL,
RUSSELL H. CHITTENDEN,
WILLIAM H. HOWELL,
WALTER B. CANNON

THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE council met at the Cosmos Club, Washington, D. C., on Tuesday, April 18, 1911, at 5 P.M.

Mr. Minot reported the following from the Committee on Policy:

1. To recommend to the council that it look with favor upon the holding of a Pacific Coast meeting in the summer of 1915 and of extending this meeting to the Hawaiian and the Philippine Islands.

2. To recommend to the council that it (the council) recommend to the next general committee that the meeting of 1913-14 be held at Atlanta, Ga., postponing the proposed meeting at Toronto until a later year.

The council adopted the above resolutions.

The secretary of Section I reported nominations of officers for that section as follows:

Vice-president and Chairman—Oscar P. Austin.
Secretary—Seymour C. Loomis.

These nominees were elected.

On motion by Mr. Cattell, the permanent secretary was instructed to inform the officers of the societies usually meeting with the American Economic Association that the American Association would view with pleasure closer relations between this association and these societies and would be glad to have them represented upon our council.

The permanent secretary made announcement as to the preliminary work which has been accomplished so far by the local executive committee for the Washington Meeting.

It was suggested that it would be advisable to instruct the secretaries of the sections, prior to the long vacation, concerning the general interest sessions.

Messrs. Minot and Welch were appointed as a committee of the council to ask President Taft for some official recognition of the coming Washington meeting.

SCIENTIFIC NOTES AND NEWS

At the meeting of the National Academy of Sciences on April 20, the following were elected to membership: Edward Emerson Barnard, astronomer, Yerkes Observatory, Williams Bay, Wis.; Edward Burr Van Vleck, professor of mathematics, University of Wisconsin; John Fillmore Hayford, director of the College of Engineering, Northwestern University; Edwin Herbert Hall, professor of physics, Harvard University; Julius Oscar Steiglitz, professor of chemistry, University of Chicago; Bertram Borden Boltwood, pro-

fessor of radio-chemistry, Yale University; James Furman Kemp, professor of geology, Columbia University; Arthur Louis Day, director of the Geophysical Laboratory of the Carnegie Institution; Robert Almer Harper, professor of botany at the University of Wisconsin. Foreign associates were elected as follows: Professor Ernest Rutherford, University of Manchester, England; Professor Vito Volterra, University of Rome, Italy. At the annual dinner of the academy on April 19 the Draper Gold Medal was presented to Mr. C. G. Abbot, of the Smithsonian Institution, for his researches on the infra-red region of the solar spectrum and his accurate measurements, by improved devices, of the solar "constant" of radiation.

DR. ALEŠ HRDLÍČKA, of the U. S. National Museum, has been made a corresponding member of the Société des Americanistes de Paris, and a foreign associate of the Società Italiana d'Antropologia.

DR. J. S. FLETT has been appointed to succeed Dr. J. Horne, F.R.S., as assistant in Scotland to the director of the Geological Survey.

MR. FRANK M. CHAPMAN, of the American Museum of Natural History, has sailed from New York for Colombia, South America, where he is to join Mr. William B. Richardson, who has been in that locality collecting birds and mammals for the museum for several months. Mr. Chapman expects to get into a region where no collecting of birds has been done; there he will make a systematic survey, probably obtaining some undescribed species and many new to the museum collections. He will also get material for several new bird groups. He has taken an assistant and expects to remain until July, when Mr. Richardson and the assistant will continue the work.

DR. ELLSWORTH HUNTINGTON, of the geographical department of Yale University, is at present making explorations in New Mexico. Mr. Huntington is making his headquarters temporarily at Sante Fé in the old governor's palace, now used as the Museum of the Archeological Institute of America. The

field of exploration will cover the old Pueblo ruins and cliff dwellings.

MR. W. A. ORTON, pathologist in the Bureau of Plant Industry, Washington, sailed on April 22 for Hamburg, and will spend six months in the study of plant diseases and the sugar beet industry in Germany, Austria, Russia, France and England. He will attend the fourth International Conference on Genetics at Paris and present a paper entitled "The Development of Disease-resistant Varieties of Plants."

DR. YANDELL HENDERSON, of Yale University, is to make, during the coming summer in company with Drs. Haldame and Douglas, of Oxford University, an extensive exploration around Pikes Peak, for the purpose of studying the effects of high altitudes on men and animals.

PROFESSOR EDUARD SELER, of Berlin, on leave of absence in Mexico, has discovered a set of ancient paintings on the walls of one of the apartments of the Palenque Palace.

THE Prince of Monaco has appointed as members of the first council of the new Institute of Human Paleontology in Paris: MM. Salomon Reinach, Boule, Berneau, Cartailhac, Capitan, Villeneuve, for France; Sir Ray Lankester for the British Isles; Professor von Luschan for Germany; Professor Hoernes for Austria-Hungary; Professor Issel for Italy, and Professor G. Retzius for the Scandinavian countries.

DR. A. E. KENNELLY, of Harvard University, has accepted an invitation from the University of London to deliver a short series of lectures in London, at the end of May next, on "The Application of Hyperbolic Functions to Electrical Engineering Problems."

PROFESSOR FRANCIS E. LLOYD, of the Alabama Polytechnic Institute, has recently lectured before the staff and students of the departments of botany and zoology of the Johns Hopkins University, on "The Behavior of Tannin in Persimmons during Ripening."

ON the evening of April 10, Dr. Wallace W. Atwood, of the University of Chicago, gave an illustrated lecture before the Geographic So-

ciety of Chicago on the "Mesa Verde National Park." It was a geographic study of the home of the cliff dwellers.

A RECENT meeting of the New York Academy of Medicine was devoted to addresses commemorative of the life and work of Dr. Edward G. Janeway. Dr. Francis Delafield spoke of him as the "Physician"; Dr. William H. Welch as the "Pathologist"; Dr. Abraham Jacobi as the "Consultant," and Dr. Joseph D. Bryant as the "Colleague and Friend."

At the coming meeting of the Medical and Chirurgical Faculty of Maryland, portraits will be presented of the late Dr. Francis Donaldson by Dr. William H. Welch and of Dr. Charles M. Ellis, Elkton, by Dr. Lewellys F. Barker.

ENGLISH journals announce the death of Mr. Charles du Bois Larbalestier, a leading authority on lichens, to whom the last edition of Leighton's "Lichen Flora" was dedicated; and of Mr. J. S. Slater, for many years principal of the Civil Engineering College, Sibpur, near Calcutta.

THE United States Civil Service Commission announces an examination to fill four vacancies in the position of forest pathologist in the office of Investigations in Forest Pathology, Bureau of Plant Industry, Department of Agriculture, at a salary of \$1,800 to \$2,400 per annum. It is expected that the persons appointed to these positions will be assigned for the greater part of the time to duty outside Washington, in charge of branch offices. Applicants will be required to show that they have had a broad scientific training, as well as considerable successful experience in technical or executive capacities. It is also desirable that they have training in plant pathology and botany equivalent to that required for the Ph.D. degree. The examination is open only to men, and competitors are not required to appear at any place for examination.

BEGINNING on July 5 and continuing during the months of July and August, the facilities of the Seed Laboratory of the Bureau of Plant

Industry, U. S. Department of Agriculture, Washington, D. C., will be available, as far as space permits to any one wishing to become familiar with the practical methods of seed testing. There will be an opportunity to observe the laboratory methods of testing for germination and mechanical purity, including the recognition of crop seeds and the commoner weed seeds.

THE *British Medical Journal* states that the first meeting of the International Committee of the seventeenth International Medical Congress would be held in London on April 21 and 22. The president of the committee is Dr. Pavy; the general secretary, Dr. Burger, of Amsterdam, and the members are Professors Waldeyer and Posner, representing Germany; Genaro Sisto, Argentina; von Eiselsberg, Austria; Déjace, Belgium; Rousseff, Bulgaria; Rovsing, Denmark; Ruffer, Egypt; Recasens, Spain; Musser, United States; Blondel, France; Kalliontzis, Greece; Koloman Müller, Hungary; Maragliano, Italy; Kitasato, Japan; Fonck, Luxemburg; Uchermann, Norway; Pel, the Netherlands; de Mattos, Portugal; von Ott, Russia; Subbotic, Servia; Henschel, Sweden; Cérenville, Switzerland. In addition to these, the following are members of the committee: Dr. von Grosz, of Budapest, as general secretary of the previous congress; Sir Thomas Barlow and Dr. W. P. Herringham, of London, as president and general secretary respectively of the forthcoming congress, and Dr. Lucas-Championnière, of Paris, as president of the International Medical Press Association. The committee will have brought before it for approval the resolutions passed by sections of the sixteenth congress. It will also consider the date of the eighteenth congress, arrange the number and nature of the sections, and discuss a general regulation as to the organization of the congress and its position in regard to international specialist and national congresses. In this connection the general secretary of the committee, Professor Burger, will present a report on a series of proposals made by Professors Waldeyer and Posner. We understand that a proposition will be made to the com-

mittee that the date of the congress shall be changed from July 29 to August 6, as previously fixed, to August 4 to 9, 1913.

THE local committee of the American Society of Mechanical Engineers, E. M. Herr, chairman, Elmer K. Hiles, secretary, having in charge the preparations for the convention of the society, which will be held in Pittsburgh, Pa., from May 30 to June 2, inclusive, has nearly completed the work of arranging the program for each day during the meeting. It has been settled that the arriving guests will be received and registered, at the Hotel Schenley, the society headquarters, on Tuesday morning, May 30. In the evening there will be an informal reception for the members and ladies in the parlors of the hotel. The extensive alterations being made by the new management of the hotel will add very largely to the comfort and enjoyment of visitors during the convention. The professional sessions will be held in the lecture hall of the Carnegie Institute, near the headquarters, Wednesday morning and evening, Thursday and Friday morning. In the meantime there will be a number of inspection trips to various industrial plants in the vicinity; a boat excursion for the members and ladies up the Monongahela River, a reception and ball at the Hotel Schenley on Thursday evening and, finally, on Friday evening, a smoker and entertainment, given by the Engineers' Society of Western Pennsylvania in their rooms in the Oliver Building. A carefully prepared program for the entertainment of the lady visitors has been arranged by a committee of ladies from Pittsburgh and vicinity, which includes a number of social functions. Judging from the number of inquiries, which have already been received from expected guests, a very large attendance is looked for, and everything indicates that this meeting in Pittsburgh will be one of the most successful "spring meetings" the society has ever held.

THE twenty-second season of the Biological Laboratory of the Brooklyn Institute of Arts and Sciences will be held at Cold Harbor, Long Island, from June to September. The regular class work will begin July first and

continue for six weeks. The courses offered include field zoology by Dr. H. E. Walter, Dr. C. B. Davenport and Mr. Sidney I. Kornhauser; bird study by Mrs. Alice Hall Walter and Mr. G. Clyde Fisher; comparative anatomy by Professor H. S. Pratt and Dr. A. A. Schaeffer; general embryology and microscopic technique by Miss Mabel Bishop; cryptogamic botany by Professor D. S. Johnson and Mr. H. H. York; plant ecology by Professor Henry S. Conard and Miss Ruth Higley; beginning investigation in animal bionomics, evolution, cryptogamic botany and ecology by instructors in those subjects. A training course for field workers in eugenics is offered. Twenty scholarships are available for properly qualified college graduates with biological training who wish to prepare for positions as field workers in connection with institutions and hospitals. About two thirds of those receiving scholarships may look for appointments in such investigation. A biological club meets two or three times a week during the evening. One scholarship of a hundred dollars is available. The announcement of the laboratory may be obtained by writing to the director, Dr. C. B. Davenport, at Cold Spring Harbor, Long Island, N. Y.

ON April 11 Governor Tener sent a special message to the Pennsylvania legislature, recommending immediate legislation for control of the bark disease of the chestnut. A bill has since been reported providing for a commission to undertake this work, and carrying a total appropriation of \$285,000. So far it is only the eastern and southeastern counties of Pennsylvania that are completely infected with this disease, and it is hoped, by the elimination of spot infections in advance of the line of general occurrence of the disease, to restrict its spread to this area. The great chestnut forests of the state which, according to the state department of forestry, have a total valuation of approximately \$50,000,000, are still essentially untouched by the disease, and the great object of the proposed legislation is to save these. Experiments made by the national department of agriculture appear to have demonstrated practical methods of quarantine

against this disease; and Pennsylvania is the first state to undertake these methods on a large scale.

THE Association of American Geographers will publish, beginning with this year, an annual volume to be known as the *Annals* of the Association. This will be devoted to the most important scientific papers presented at the annual meeting. The publication will be managed by a committee composed of Mr. Alfred H. Brooks, of the U. S. Geological Survey; Professor Henry C. Cowles, University of Chicago; Professor Ralph S. Tarr, Cornell University, and Professor Richard E. Dodge, Teachers' College, Columbia University.

THE *British Medical Journal* reports that the principal centers in India in which plague occurred during 1910, and the deaths consequent thereupon, were as follows: Bombay Presidency, 36,831; Bengal, 30,546; United Provinces, 144,266; Punjab, 143,416; Central Provinces, 42,104; Rajputana, 37,657; Burma, 7,605. The following are the most recent general statistics: October 22 to 31, 1910, 5,641; November, 26,189; December, 39,604. Total deaths, 71,434, making, with deaths, July to October 22, 20,828, total for half year, July to December, 92,262. During the first six months of 1910 the deaths numbered 360,632. Total deaths during 1910, 452,894. It would appear that the recrudescence of plague in 1911 has begun in a more virulent form than in 1910. In January, 1911, the deaths from plague in India numbered 75,468. This is a higher figure than in 1910, when in January the deaths amounted to 51,437.

UNIVERSITY AND EDUCATIONAL NEWS

By the will of Henry F. Dimmock, of New York, Yale University will receive about \$100,000 and under certain contingencies will receive twice this amount.

IN addition to the regular course in general surveying, the School of Mines of the University of Arizona will start this year a summer school of mine surveying lasting through the month of June. This course, which will cover the details of underground surveying, the con-

struction of stope plans and other allied subjects, will be conducted by Mr. Eugene R. Rice, engineer of the Hite Gold Mines, city engineer of Wickenburgh, etc. The work will be done in one of the numerous mines near Prescott, Arizona.

DR. ARTHUR H. WILDE, who has been connected with Northwestern University, Evanston, Ill., since 1892 and has been secretary of the university council since 1909, has accepted the presidency of the University of Arizona, at Tucson, and will take up his duties there on May 1.

DEAN JULIET GREER, professor of domestic science and art of the Oregon Agricultural College, announces her resignation from the position which she has held for three years, the resignation to take effect the coming July.

RICHARD SWANN LULL, B.S., M.S. (Rutgers), Ph.D. (Columbia), assistant professor of vertebrate paleontology in Yale College and associate curator in the Peabody Museum, was made professor of vertebrate paleontology in Yale University at the corporation meeting of April 17. At the same meeting Dr. George Grant MacCurdy was appointed assistant professor of archeology. He is secretary of the American Anthropological Association and of Section H of the American Association for the Advancement of Science.

New appointments and promotions at Stanford University for the academic year beginning August 1, 1911, are as follows:

New Appointments:

Noah F. Drake, associate professor of economic geology. Dr. Drake is a graduate, A.B., A.M. and Ph.D., of Stanford University; professor of geology and mining in Imperial Pei Yang University, Tientsin, China, since 1898.

Mr. Henry V. Poor, instructor in graphic art. Mr. Poor received his A.B. degree at Stanford, 1910, and is now studying abroad.

Mr. Jesse B. Sears, instructor in education. Mr. Sears received the A.B. degree at Stanford, 1909; now instructor in the University of Wisconsin.

Mr. Harry J. Sears, Stanford, A.B., 1910, instructor in chemistry.

Miss Alice R. Berger, Stanford, A.B., 1908, acting instructor in chemistry.